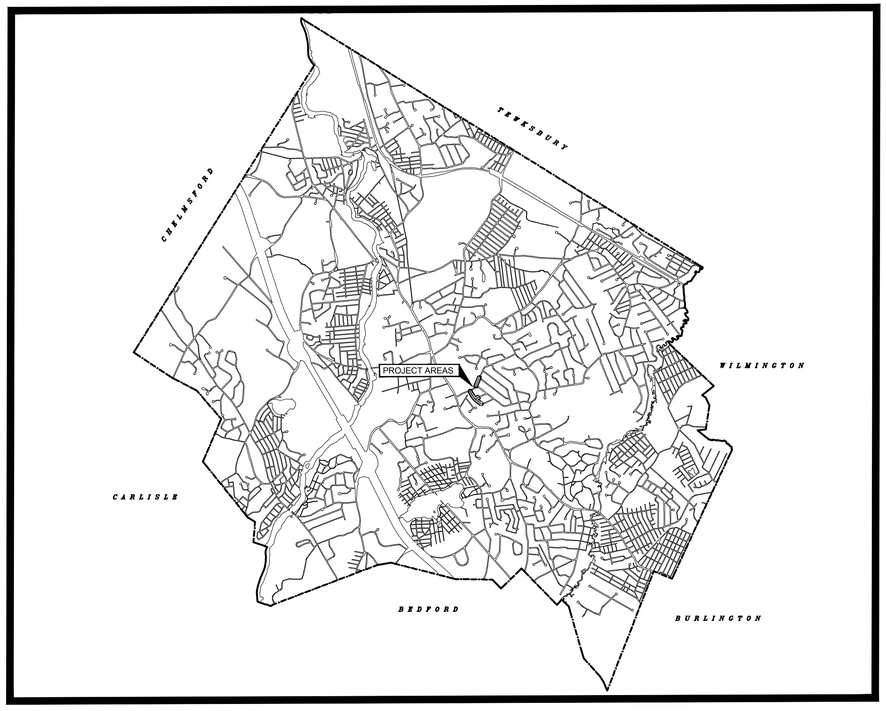
TOWN OF BILLERICA, MASSACHUSETTS

POE ROAD AND TOWER FARM ROAD DRAINAGE REHABILITATIONS
DEPARTMENT OF PUBLIC WORKS, 365 BOSTON ROAD, BILLERICA, MASSACHUSETTS 01821



LOCUS MAP
SCALE: 1"=1000'

DRAWING INDEX	
SHEET	TITLE
G000	COVER
G001	ABBREVIATIONS, NOTES AND LEGEND
G601	CONSTRUCTION ZONE SAFETY PLAN
C101	BASE BID PLANS AND TABLES

FREDERICK W. RUSSELL, PE
DIRECTOR OF PUBLIC WORKS

KELLEY J. CONWAY, PE
TOWN ENGINEER

COMMONWEALTH OF MASSACHUSETTS
DAVID M. ELMER
CIVIL
No. 41507
REGISTERED PROFESSIONAL ENGINEER

David Elmer
2025.06.06
13:55:17-04'00'

Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

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JUNE 2025

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811 Know what's below. Call before you dig.

TOWN OF BILLERICA INCORPORATED 1655 MASSACHUSETTS

Issued For:

BIDDING AND CONSTRUCTION

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P:\Billerica Mv24\0748 Poe and Tower Farm Rd Drainage CIP Design\8-BIM-CAD\25BSM\Cover_NEW_Billerica.dwg

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	S	8"S PVC
FORCE MAIN	FM	6"FM DI
WATER MAIN	W	6"W DI
TEMPORARY WATER		4"W
STORM DRAIN	D	18"D RCP
GAS	G	4"G
ELECTRIC	E	E
TELEPHONE	T	T
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP		GP
SANITARY SEWER MANHOLE	S	SMH
STORM DRAIN MANHOLE	D	SDMH
ELECTRICAL MANHOLE		EMH
TELEPHONE MANHOLE		TMH
AIR RELEASE VALVE MANHOLE		ARMH
FORCE MAIN CLEANOUT MANHOLE		FMCO
CLEANOUT		CO
CATCH BASIN		CB
CATCH BASIN (CURB INLET)		
HYDRANT		
TEMPORARY HYDRANT		
GATE VALVE	WV	
CHECK VALVE		
CURB STOP		
BUTTERFLY VALVE		
BALL VALVE		
REDUCER		
CAP OR PLUG		
GAS GATE VALVE	GV	
UTILITY POLE		
GUY POLE		
LIGHT POLE BASE		
EDGE OF PAVEMENT		
EDGE OF UNPAVED ROAD		
CURB		
SIDEWALK		
RAILROAD		
STONE WALL		
RETAINING WALL	RET WALL	RET WALL
FENCE	x x	x x
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
TREE LINE		
SURVEY MARKER		
PROPERTY LINE	P	
EASEMENT LINE		
LIMIT OF WORK		
SPOT ELEVATIONS	x 141.5	x141.5
CONTOUR LINES	56	56
DEPRESSION CONTOUR LINES		
HOUSE NUMBER	#35	
FLOOR ELEVATION	FL=56.7	
SILL ELEVATION	S=56.7	
WETLAND		
STATE HIGHWAY STATION		
SIGN		
BENCH MARK		
TEST PIT	TP 1	TP-1
BORING	B-10	B-11
HAY BALES		
ROCK OUTCROP		
DRAINAGE DITCH / SWALE		
TREE PROTECTION		TP
PIPE CONTINUATION		
HAND HOLE	HH	
MONITORING WELL	MW	

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BS	BARE STEEL
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
℄	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
HC	HOUSE CONNECTION
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
I	INVERT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDPW	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL
MH	MANHOLE
MassDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MWRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
P	PROPERTY LINE
PL	PLASTIC
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER, SOUTH
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

CONSTRUCTION NOTES:

1. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
2. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
3. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
4. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC TO ALL STREETS THROUGHOUT THE DURATION OF THE PROJECT.
6. CONTRACTOR SHALL NOTE REQUIREMENTS OF SPECIFICATION SECTION 01570, ENVIRONMENTAL PROTECTION, PARAGRAPH 3.03 "PROTECTION OF LANDSCAPE."
7. CONTRACTOR SHALL NOTE REQUIREMENTS OF SPECIFICATION SECTION 01110, CONTROL OF WORK AND MATERIALS, PARAGRAPH 3.15 "NOISE CONTROL."
8. ASSESSORS INFORMATION REPRESENTED ON THESE DRAWINGS IS TAKEN FROM THE CITY/TOWN ASSESSOR'S PARCEL MAPS AND IS INCLUDED FOR ILLUSTRATIVE PURPOSES ONLY. ASSESSORS INFORMATION IS NOT INTENDED TO BE AN AUTHORITATIVE RECORD OF PROPERTY BOUNDARIES OR A SOURCE OF INFORMATION FOR AN ACTUAL SURVEY OR LEGAL DESCRIPTION OF THE PROPERTY. NO WORK HAS BEEN PERFORMED TO DETERMINE THE DEPICTED PROPERTY LINES AND THEREFORE, THESE DRAWINGS ARE NOT INTENDED BE USED TO DELINEATE ANY EXISTING OR PROPOSED STRUCTURES, FEATURES OR BOUNDARIES RELATIVE TO PROPERTY LINES. AUTHORITATIVE RECORDS OF PROPERTY LINES MAY BE LOCATED AT THE STATE OR MUNICIPAL AGENCY RESPONSIBLE FOR MAINTAINING PUBLIC RECORDS IN WHICH THE PARCEL IS LOCATED. LEGALLY AUTHORITATIVE MAPS OF PROPERTY LINES MAY ONLY BE PRODUCED BY A PROFESSIONAL LAND SURVEYOR.
9. IF DEEMED NECESSARY FOR TRAFFIC CONTROL OR TO MINIMIZE SERVICE DISRUPTIONS IN BUSINESS DISTRICTS, NIGHT WORK MAY BE REQUIRED ON TOWER FARM ROAD.
10. ALL ROADS SHALL BE MADE SAFE AND PASSABLE FOR ALL THRU TRAFFIC AT THE END OF THE DAY. 24/7 CLOSURES AND DETOURS WILL NOT BE ALLOWED.
11. CONTRACTOR SHALL PROVIDE THEIR OWN STAGING AREA. NO STAGING OR LAY-DOWN AREA SHALL BE PROVIDED BY THE TOWN OF BILLERICA.
12. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS, 50 FEET OF INTERSECTIONS OR 10 FEET OF DRIVEWAYS.
13. NO PAYMENT SHALL BE MADE FOR ADDITIONAL PIPE CLEANING, CONTRACTOR MUST REFER TO TELEVISION INSPECTION LOGS TO DETERMINE EXTENT OF CLEANING REQUIRED.
14. CONTRACTOR SHALL MAINTAIN EXISTING FLOWS IN THE SYSTEM, BYPASSING AS NECESSARY TO PREVENT SURCHARGING, AS APPROVED OR REQUIRED BY THE ENGINEER.
15. CONTRACTOR SHALL PRODUCE AND DISTRIBUTE DOOR-TO-DOOR NOTIFICATION LETTERS FOR ALL CURED-IN-PLACE PIPE INSTALLATIONS; ONE (1) WEEK PRIOR, ONE (1) DAY PRIOR, AND WHEN COMPLETED. NOTIFICATION LANGUAGE SHALL BE APPROVED BY THE OWNER PRIOR TO DISTRIBUTION.
16. THE TOWN OF BILLERICA IS NOT PART OF DIGSAFE, CONTRACTOR TO CALL WATER DIVISION AT (978) 671-0957 AND WASTEWATER DIVISION AT 978-671-0956 72 HOURS BEFORE ANY EXCAVATION.

GENERAL NOTES:

1. PLANS ILLUSTRATE APPROXIMATE LOCATIONS OF MANHOLES AND DRAINS. REFER TO THE TABLES ON EACH STREET FOR THE APPROXIMATE LINEAR FEET OF DRAINS BETWEEN MANHOLES AND THE PROXIMATE STATION LOCATIONS OF REHABILITATIONS. SEE TELEVISION INSPECTIONS LOGS IN THE SPECIFICATIONS FOR MORE INFORMATION. ALL LOCATIONS SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
2. SEE MANHOLE AND TELEVISION INSPECTION LOGS, INCLUDED IN SPECIFICATIONS SECTION 00331 – TV INSPECTION AND MANHOLE INSPECTION REPORTS PROVIDED BY THE OWNER.
3. CONTRACTOR SHALL NOTE THE DATES ON WHICH THE MANHOLE AND PIPELINE TELEVISION INSPECTIONS WERE COMPLETED. THE DATES ARE SHOWN ON EACH LOG INCLUDED IN THE SPECIFICATIONS.
4. CONTRACTOR SHALL PROVIDE ALL PROJECT VIDEO FILES ON AN EXTERNAL HARD DRIVE AT THE CONCLUSION OF THE PROJECT AS DESCRIBED IN SPECIFICATION SECTION 01331 DOCUMENTATION.
5. MANHOLES AND LINE SEGMENTS WITH WORK TO BE PERFORMED ARE BOLDED ON THE PLANS. WHERE THERE IS A DISCREPANCY BETWEEN THE BOLDED MANHOLE/LINE SEGMENT AND THE WORK TABLES, THE WORK TABLES SHALL CONTROL.
6. WHERE THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE PLANS, THE PLANS SHALL CONTROL.
7. THE SCOPE OF WORK OF THE BASE BID INCLUDES INSTALLATION OF APPROXIMATELY 1,799 LINEAR FEET OF 12-INCH TO 18-INCH DIAMETER CURED-IN-PLACE PIPE FOR STORMWATER DRAINS AND OTHER RELATED TASKS IN THE TOWN OF BILLERICA, MASSACHUSETTS.
8. THE CONTRACTOR SHALL HAVE A TV MOUNTED TO THE BACK OF THE CCTV TRUCK(S) SO THE ENGINEER CAN VIEW PIPELINE INSPECTIONS.
9. THE FIRST TWO (2) LETTERS IN THE SUBAREA DESIGNATION INDICATE CATCH BASIN (CB) OR MANHOLE (MH) STRUCTURE TYPE.
10. CLEANING OF DRAIN MANHOLES OR CATCH BASINS AS REQUIRED TO INSTALL CURED-IN-PLACE MANHOLE TO MANHOLE LINERS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

Project:
TOWN OF BILLERICA, MA
POE ROAD AND TOWER FARM ROAD
DRAINAGE REHABILITATIONS
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BILLERICA, MA 01821

Weston & Sampson
Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Suite 100
Reading, MA 01867
978.532.1900 800.SAMPSON
www.westonandsampson.com

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David Elmer
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Seal:

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DAVID M. ELMER
CIVIL
No. 41507
REGISTERED PROFESSIONAL ENGINEER

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ABBREVIATIONS, NOTES, AND LEGEND

Sheet Number:
G001

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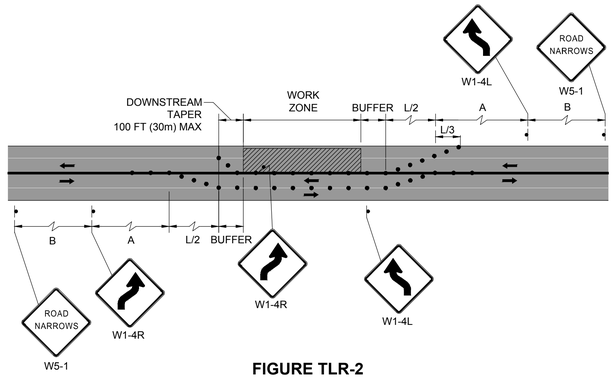


FIGURE TLR-2

TWO LANE ROAD
STAGE I SHOULDER AND TRAVEL LANE CLOSED

NOT TO SCALE

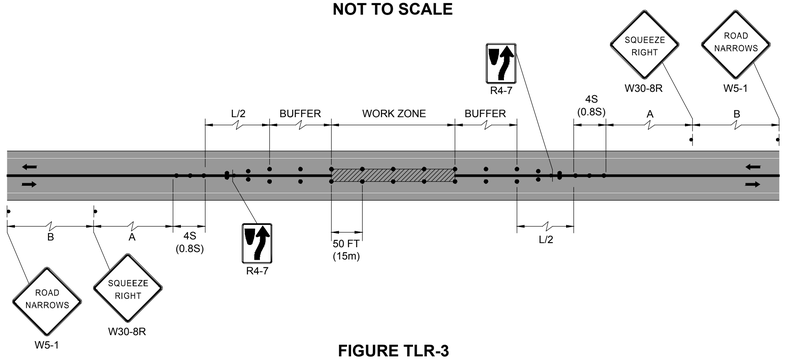


FIGURE TLR-3

TWO LANE ROAD
STAGE II CENTER OF ROAD CLOSURE

NOT TO SCALE

TWO LANE ROAD
STAGE III SHOULDER AND TRAVEL LANE CLOSED

NOTE: USE MIRROR IMAGE OF TLR-2 ABOVE (STAGE I) FOR WORK ZONE ON OPPOSITE SIDE OF STREET.

TRAFFIC OPERATION STAGES
N.T.S.

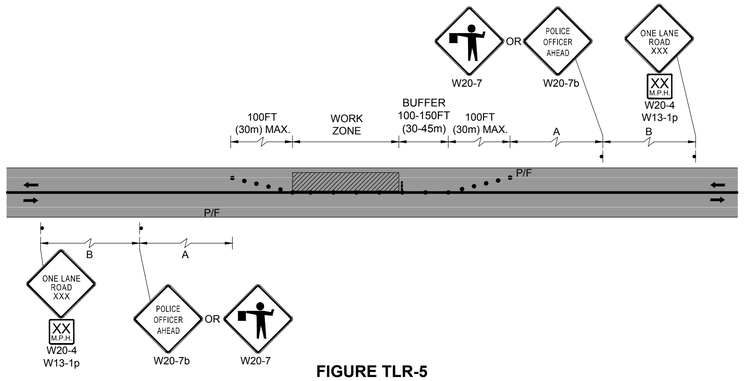
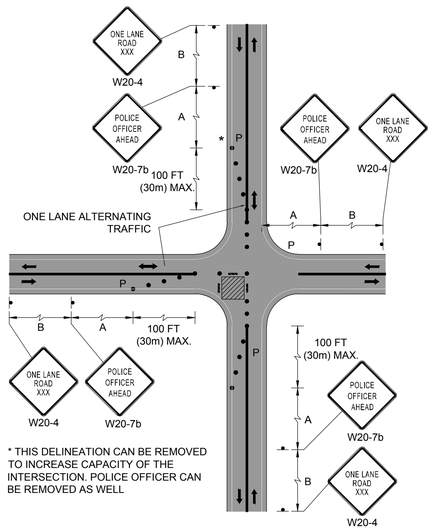


FIGURE TLR-5

TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC

NOT TO SCALE

NOTE: USE MIRROR IMAGE OF TLR-5 FOR WORK ZONE ON OPPOSITE SIDE OF STREET.



* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL

FIGURE INT-2

SINGLE LANE APPROACH
ONE QUADRANT CLOSURE

NOT TO SCALE

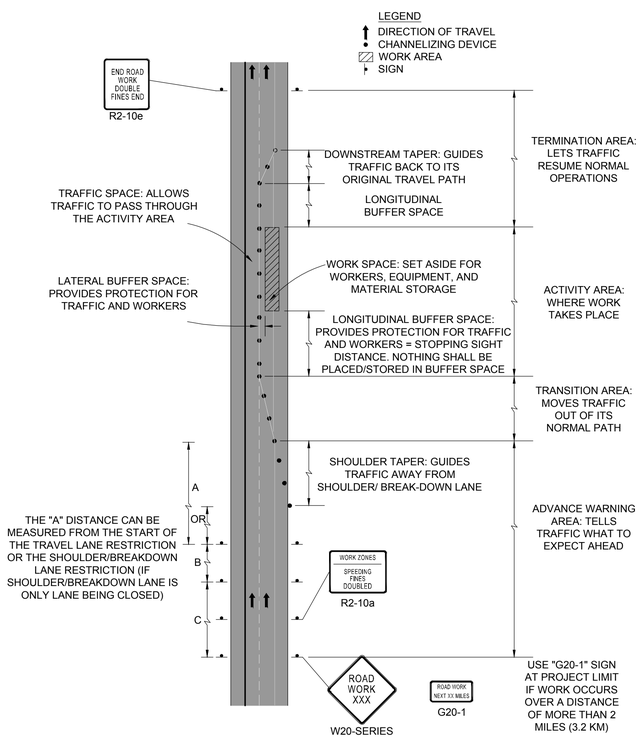

LEGEND
DIRECTION OF TRAVEL
CHANNELIZING DEVICE
WORK AREA
SIGN
END ROAD WORK DOUBLE FINES END
R2-10e
DOWNSTREAM TAPER: GUIDES TRAFFIC BACK TO ITS ORIGINAL TRAVEL PATH
LONGITUDINAL BUFFER SPACE
TRAFFIC SPACE: ALLOWS TRAFFIC TO PASS THROUGH THE ACTIVITY AREA
WORK SPACE: SET ASIDE FOR WORKERS, EQUIPMENT, AND MATERIAL STORAGE
LATERAL BUFFER SPACE: PROVIDES PROTECTION FOR TRAFFIC AND WORKERS
LONGITUDINAL BUFFER SPACE: PROVIDES PROTECTION FOR TRAFFIC AND WORKERS = STOPPING SIGHT DISTANCE. NOTHING SHALL BE PLACED/STORED IN BUFFER SPACE
TERMINATION AREA: LETS TRAFFIC RESUME NORMAL OPERATIONS
ACTIVITY AREA: WHERE WORK TAKES PLACE
TRANSITION AREA: MOVES TRAFFIC OUT OF ITS NORMAL PATH
SHOULDER TAPER: GUIDES TRAFFIC AWAY FROM SHOULDER/ BREAK-DOWN LANE
ADVANCE WARNING AREA: TELLS TRAFFIC WHAT TO EXPECT AHEAD
A
OR
B
C
THE "A" DISTANCE CAN BE MEASURED FROM THE START OF THE TRAVEL LANE RESTRICTION OR THE SHOULDER/BREAKDOWN LANE RESTRICTION (IF SHOULDER/BREAKDOWN LANE IS ONLY LANE BEING CLOSED)
WORK ZONES
SPEEDING FINES DOUBLED
R2-10a
ROAD WORK XXX
W20-SERIES
ROAD WORK NEXT XX MILES
G20-1
USE "G20-1" SIGN AT PROJECT LIMIT IF WORK OCCURS OVER A DISTANCE OF MORE THAN 2 MILES (3.2 KM)

FIGURE GEN-4

COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE

NOT TO SCALE

LEGEND:

- REFLECTORIZED DRUM
- TRAFFIC FLOW DURING CONSTRUCTION
- NORMAL TRAFFIC FLOW
- POLICE DETAIL OFFICER
- CONSTRUCTION SIGN
- WORK AREA
- TYPE III BARRICADE

FORMULA FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	L= WS

WHERE: L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATED SPEED IN MPH

ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)		
	A	B	C
URBAN (LOW SPEED)	100	100	100
URBAN (HIGH SPEED)	350	350	350

GENERAL NOTES:

1. PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
3. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
4. THE FIRST TEN PLASTIC DRUMS OF TAPER SHALL BE EQUIPPED WITH SEQUENTIAL FLASHING LIGHTS.
5. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
6. NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
7. PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
8. W20-7B SHALL BE TAKEN DOWN OR COVERED AFTER EACH WORKING DAY OR WHEN OTHERWISE NOT APPLICABLE, OR WHEN POLICE OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
9. ADVISORY SPEED PLATES (W13-1 – SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
10. NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
11. SAMPLE TRAFFIC PLANS INCLUDED ON THIS PLAN SHEET ARE BASED ON AN URBAN (LOW SPEED) ROAD TYPE FROM THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
12. DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION. IF ANY PAVEMENT MARKINGS ARE TEMPORARILY MODIFIED, EXISTING/ORIGINAL PAVEMENT MARKINGS SHALL BE RESTORED TO ORIGINAL CONDITIONS AFTER WORK IS COMPLETE. USING DRUMS/CONES INSTEAD IS RECOMMENDED. DRUMS/CONES SHALL BE A MINIMUM HEIGHT OF 36".
13. THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
14. THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

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CONSTRUCTION ZONE SAFETY PLAN

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P:\Bill\Reva MA\Out\G4 Poe and Tower Farm Rd Drainage (FB\Plans\Work\MA\OUT\ENV\G25 PLAN_Revised.dwg

CURED-IN-PLACE MANHOLE TO MANHOLE LINER

SUBAREA	MH	TO SUBAREA	TO MH	STREET / LOCATION	PIPE DIA (IN)	MATERIAL	APPROXIMATE STRUCTURE TO STRUCTURE LENGTH (LF)	REINSTATE SERVICE
MHSN10	11	MHSN10	10	TOWER FARM ROAD	18	RC	386	NONE
CBSN10	59	MHSN10	10	TOWER FARM ROAD	12	RC	56	NONE
CBSN10	62	CBSN10	63	TOWER FARM ROAD	12	RC	24	NONE
CBSN10	63	MHSN10	11	TOWER FARM ROAD	18	RC	116	NONE
CBSN10	74	CBSN10	71	POE ROAD	18	RC	127	NONE
CBSN10	75	CBSN10	74	POE ROAD	15	RC	366	NONE
CBSN10	76	CBSN10	75	POE ROAD	12	RC	42	NONE
CBSN10	77	CBSN10	75	BERRY STREET	12	RC	84	NONE
CBSN10	162	CBSN10	165	POE ROAD	12	RC	226	NONE
CBSN10	163	CBSN10	162	POE ROAD	12	RC	37	NONE
CBSN10	165	CBSN10	75	POE ROAD	12	RC	335	NONE

NOTES:

1. Contractor shall review the defect photo of the exposed reinforcing bar at STA 0+10 in pige segment CBSN10-75_CBSN10-74, included in the Television Inspection Log in Specification SECTION 00331 - TV INSPECTION AND MH INSPECTION REPORTS PROVIDED BY THE OWNER. If required, installation of a pre-liner or cured-in-place short liner shall be considered incidental to the installation of the cured-in-place pipe.
2. Contractor shall complete heavy cleaning to remove deposits in catch basin lateral CBSN10-163_CBSN10-162 from STA 0+00 to STA 0+05. Heavy cleaning is incidental to installation of cured-in-place pipe.

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